10/062,131

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Thursday, June 17, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
☐	L13	5474765.pn. or 5762918.pn.	3
☐	L12	L10 same l3	1
☐	L11	L10 and l3	95
☐	L10	l4 near5 l6	952
☐	L8	l4 and l6	2725
☐	L7	L6 and l5	291
☐	L6	hydrazide	26088
☐	L5	L4 and l3	600
☐	L4	hydrazone	17998
☐	L3	L2 near4 l1	18953
☐	L2	link? or bond	1195997
☐	L1	disrupt$ or cleav$	276725

END OF SEARCH HISTORY

h e b b cg b chh e ce e e f ff e ch e

Please return all attachments with search results. Thanks.

* Paula Schulwitz please

Access DB# 124899

SEARCH REQUEST FORM

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APR 17 2004

Scientific and Technical Information Center

(STIC)

Requester's Full Name: Molly Ceperley Examiner #: 59757 Date: 04/15/04

Art Unit: 1641 Phone Number 308-2-0813 Serial Number: 10/062,131

Mail Box and Bldg/Room Location: Rem 3A51 Results Format Preferred (circle): PAPER DISK E-MAIL

↳ Rem 3C70

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: See bibliographic data sheet attached.

Inventors (please provide full names): _____

Earliest Priority Filing Date: 02/01/2002

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search the attached claims. See also the attached figure and Remarks.

The broad concept is to attach a protein (e.g. antibody to thyroid stimulating hormone (TSH)) to a surface (e.g. periodate activated agarose) through a hydrazone bond ($-C=N-NH_2$) then to further attach another protein (e.g. alkaline phosphatase which is maleimido derivatized). The hydrazone bond between the solid support is then disrupted using hydroxylamine leaving a hydrazide ($-NH_2-NH_2$) group on the first protein. See the figure and Remarks (page 4).

Terms: disruptable bond, hydrazide, hydrazone, N-[ε-maleimidocaproic acid] hydrazide (EMCH), periodate, agarose, alkaline phosphatase, antibody to TSH, R-phycoerythrin (PE), B-phycoerythrin, allophycocyanin (APC), cleavable bond, hydroxylamine

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#)_____	STN _____
Searcher Phone #: _____	AA Sequence (#)_____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify)_____

PTO-1590 (8-01)

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L2         58139 SEA FILE=HCAPLUS ABB=ON  PLU=ON  HYDRAZIDES+OLD,NT/CT
L3           962 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L1 AND L2
L5               STR
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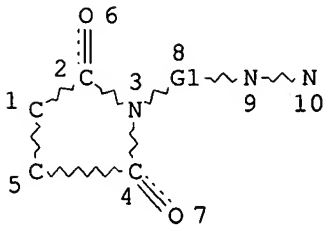

Considered 07/30/04 MEC

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REP G1=(0-20) A
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  10

STEREO ATTRIBUTES: NONE
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L8             2 SEA FILE=REGISTRY ABB=ON  PLU=ON  TSH/CN
L9           613 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8(L)ANTIBOD?
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L11            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L9 AND L1
L12            3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L9 AND L2
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L14           53 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L7 AND L2
L15            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L13 OR L14) AND DISRUP?
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L18          515 SEA FILE=REGISTRY ABB=ON  PLU=ON  "PERIODATE"
L19           44 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 AND L18
L20            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 AND L9
L21            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 AND L7
L22            4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 AND (L1 OR L2)
L23       132091 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CHROMOPHORES+OLD,NT/CT
L24           38 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L23 AND (L19 OR L9 OR L3)
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L28            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L27 AND L19
L29            8 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L10 OR L11 OR L12 OR L15 OR
                 L20 OR L21 OR L22 OR L25 OR L26 OR L28


=> d l29 ibib abs hitind hitstr 1-8

L29  ANSWER 1 OF 8  HCAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2004:80237  HCAPLUS
DOCUMENT NUMBER:          140:124853
TITLE:                    Multiple hybrid immunoassay
```

INVENTOR(S): Emerson Campbell, John Lewis; Frank, Pamela Anne; Hawkes, Meghan Elizabeth; Lobin, Shannon Reishma; Miller, Cary James; Yang, Zhen
PATENT ASSIGNEE(S): Can.
SOURCE: U.S. Pat. Appl. Publ., 26 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004018577	A1	20040129	US 2002-208560	20020729
WO 2004011947	A1	20040205	WO 2003-US23483	20030729

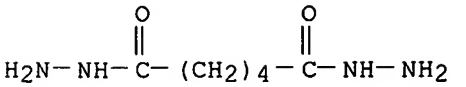
W: JP
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.: US 2002-208560 A 20020729

AB The invention relates to compns. and methods for the immunoassay of an analyte of interest. The analyte is detected in an immunoassay using three or more antibodies, wherein each antibody specifically binds to a different epitope on the analyte. When the analyte of interest is a clin. marker for an acute disease, the detection of the analyte by immunoassay is a diagnosis of the occurrence of the disease. Microparticle capture reagents were made comprising a first capture antibody to cardiac troponin I (cTnI) (CB1), a second capture antibody (CB2) to cTnI, and CB12 microparticles comprising both CB1 and CB2. Alkaline phosphatase-labeled Fab conjugates were also made comprising EC1, EC2 or the EC12 hybrid containing both EC1 and EC2. The hybrid capture reagents and hybrid signal reagents gave superior assay performance in the detection of cTnI in whole blood samples.

IC ICM G01N033-53
ICS G01N033-537; G01N033-543
NCL 435007930
CC 9-10 (Biochemical Methods)
Section cross-reference(s): 14, 15
IT 92-87-5D, Benzidine, derivs. 111-30-8, Glutaraldehyde **1071-93-8**, Adipic acid dihydrazide 2425-79-8 4856-87-5 64987-85-5 96602-46-9, N-Hydroxysuccinimidyl 4-azidosalicylate 125559-00-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(as agent for crosslinking antibody to microparticle or label; multiple hybrid immunoassay using three or more different antibodies to different epitopes on analyte)
IT 9002-68-0, FSH **9002-71-5**, Thyroid-stimulating hormone 114471-18-0, Brain natriuretic peptide 121128-24-3, Pro-brain natriuretic peptide
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(multiple hybrid immunoassay using three or more different **antibodies** to different epitopes on analyte)
IT **1071-93-8**, Adipic acid dihydrazide
RL: RCT (Reactant); RACT (Reactant or reagent)
(as agent for crosslinking antibody to microparticle or label; multiple hybrid immunoassay using three or more different antibodies to different epitopes on analyte)
RN 1071-93-8 HCAPLUS

CN Hexanedioic acid, dihydrazide (9CI) (CA INDEX NAME)



IT **9002-71-5**, Thyroid-stimulating hormone
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(multiple hybrid immunoassay using three or more different **antibodies** to different epitopes on analyte)
RN 9002-71-5 HCAPLUS
CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER (2) OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:622578 HCAPLUS
DOCUMENT NUMBER: 139:169330
TITLE: Silver-containing antimicrobial compositions
INVENTOR(S): Gibbins, Bruce L.; Hopman, Lance D.
PATENT ASSIGNEE(S): Acrymed, USA
SOURCE: U.S., 29 pp., Cont.-in-part of U.S. Ser. No. 191,223.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

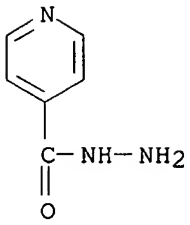
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6605751	B1	20030812	US 2000-675892	20000929
US 6355858	B1	20020312	US 1998-191223	19981113
US 2004010215	A1	20040115	US 2003-441275	20030519

PRIORITY APPLN. INFO.:
US 1997-971074 A2 19971114
US 1998-191223 A2 19981113
US 1999-157000P P 19991001
US 2000-212455P P 20000619
US 2000-675892 A1 20000929

AB The present invention comprises methods and compns. for making a silver-containing antimicrobial hydrophilic material. More particularly, the present invention comprises methods and compns. for stabilized silver antimicrobial devices comprising a matrix comprising a polymer network and a non-gellable polysaccharide, and an active agent. The matrix may be formed into any desired shape for its desired uses. The incorporation of the antimicrobial agent, penicillin G, into the matrix was evaluated by dissolving 1+106 units of penicillin G powder into 50 mL of water. Acrylamide, methylenebisacrylamide, glycerol, and a guar gum/isopropyl alc. mixture were added 900 mL water and mixed for 2 h. The penicillin solution was then added along with TEMED dissolved in 25 mL water. After thorough mixing, ammonium persulfate in 25 mL water was added and mixed thoroughly. The mixture was then poured into sheet molds and allowed to gel. The sheets of semi-solid gel material were stripped from the mold and dehydrated to approx. 7% their original water content for storage. Disks of 0.7 cm diameter were cut from the sheets. These results demonstrate

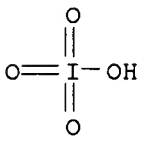
the release of active penicillin G after its incorporation into the matrix.

IC ICM A61F013-00
NCL 602041000; 602043000; 602048000
CC 63-6 (Pharmaceuticals)
IT **54-85-3**, Isoniazid 56-81-5, Glycerol, biological studies 57-55-6, Propylene glycol, biological studies 57-88-5, Cholesterol, biological studies 57-92-1, Streptomycin, biological studies 58-14-0, Pyrimethamine 60-33-3, Linoleic acid, biological studies 60-54-8, Tetracycline 61-33-6, Penicillin G, biological studies 64-17-5, Ethanol, biological studies 67-63-0, Isopropyl alcohol, biological studies 68-35-9, Sulfadiazine 69-53-4, Ampicillin 70-00-8, Trifluridine 71-36-3, Butanol, biological studies 74-55-5, Ethambutol 80-08-0, Dapsone 97-59-6, Allantoin 98-96-4, Pyrazinamide 100-33-4, Pentamidine 114-07-8, Erythromycin 154-21-2, Lincomycin 544-35-4, Linoleic acid ethyl ester 564-25-0, Doxycycline 1256-86-6, Cholesteryl sulfate 1397-89-3, Amphotericin B 1398-61-4, Chitin 1403-66-3, Gentamicin 1406-05-9, Penicillin 2030-63-9, Clofazimine 4428-95-9, Foscarnet 7440-22-4, Silver, biological studies 7440-22-4D, Silver, salts 7447-39-4, Copper chloride, biological studies 7542-37-2, Paromomycin 7705-08-0, Ferric chloride, biological studies 7783-90-6, Silver chloride, biological studies 7783-96-2, Silver iodide 7785-23-1, Silver bromide 9000-07-1, Carrageenin 9000-30-0, Guar gum 9004-32-4, Carboxymethyl cellulose sodium salt 9004-34-6, Cellulose, biological studies 9004-54-0, Dextran, biological studies 9004-61-9, Hyaluronic acid 9005-49-6, Heparin, biological studies 9007-28-7, Chondroitin sulfate **9012-36-6**, Agarose 9015-71-8, Corticotropin releasing factor 9050-30-0, Heparan sulfate 9061-61-4, Nerve growth factor 13292-46-1, Rifampin 13463-41-7, Zinc pyrithione **15606-77-6**, Silver periodate 18323-44-9, Clindamycin 22916-47-8, Miconazole 24967-94-0, Dermatan sulfate 25034-58-6, Acrylamide-methylenebisacrylamide copolymer 37300-21-3, Pentosan polysulfate 59277-89-3, Acyclovir 62229-50-9, Epidermal growth factor 65277-42-1, Ketoconazole 67763-96-6, Insulin-like growth factor 1 67763-97-7, Insulin-like growth factor 2 71812-41-4, Tumor angiogenesis factor 72559-06-9, Rifabutin 81103-11-9, Clarithromycin 82410-32-0, Ganciclovir 82419-36-1, Ofloxacin 83869-56-1, Granulocyte-macrophage colony stimulating factor 83905-01-5, Azithromycin 84625-61-6, Itraconazole 85721-33-1, Ciprofloxacin 86386-73-4, Fluconazole 95233-18-4, Atovaquone 101831-37-2, Diclazuril 106096-92-8, Acidic fibroblast growth factor 106096-93-9, Basic fibroblast growth factor 110871-86-8, Sparfloxacin 127464-60-2, Vascular endothelial growth factor
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(silver-containing antimicrobial compns.)
IT **54-85-3**, Isoniazid **9012-36-6**, Agarose **15606-77-6**, Silver periodate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(silver-containing antimicrobial compns.)
RN 54-85-3 HCAPLUS
CN 4-Pyridinecarboxylic acid, hydrazide (9CI) (CA INDEX NAME)



RN 9012-36-6 HCAPLUS
CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 15606-77-6 HCAPLUS
CN Periodic acid (HIO4), silver(1+) salt (8CI, 9CI) (CA INDEX NAME)



● Ag(I)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:610108 HCAPLUS
DOCUMENT NUMBER: 139:146205
TITLE: Macromolecular conjugates and processes for preparing the same
INVENTOR(S): Russell, John C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003149246	A1	20030807	US 2002-62131	20020201
WO 2003072017	A2	20030904	WO 2002-US40285	20021216

W: CA, JP
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR

this application.

PRIORITY APPLN. INFO.: US 2002-62131 A 20020201
AB The invention pertains to making a suspended or soluble macromol. conjugate comprising binding a first macromol. to a solid via a stable, **disruptable** bond, stably linking addnl. macromols., and releasing

the macromol. conjugate, as well as macromol. conjugates prepared by the method. Sepharose CL2B was oxidized with NaIO4, activated with N-[ε- **maleimidocaproic** acid]hydrazide, and reacted with R-phycoerythrin activated with N-succinimidyl S-acetylthioacetate (SATA). Unreacted **maleimide** groups were deactivated by treatment with the sodium salt of mercaptoethanesulfonic acid. From one to five layers of alkaline phosphatase were added to the conjugate by alternately reacting SATA-activated enzyme or γ- **maleimidobutyric** acid N-hydroxysuccinimide ester (GMBS)-activated enzyme. SATA-activated or GMBS-activated anti-TSH antibody was reacted last with the conjugates. Unreacted groups were capped and the conjugates were released from the resin using hydroxylamine. The conjugates were used in TSH ELISA assays.

IC ICM G01N033-542
ICS G01N033-53; C07K016-46

NCL 530391100; 435007900

CC 9-14 (Biochemical Methods)

IT **Phycoerythrins**
RL: SPN (Synthetic preparation); PREP (Preparation)
(B-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

IT **Phycoerythrins**
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(R-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

IT **Chromophores**
Fluorescent substances
(conjugate containing; macromol. conjugates and processes for preparing them using solid surfaces)

IT **Allophycocyanins**
Macromolecular compounds
Proteins
RL: SPN (Synthetic preparation); PREP (Preparation)
(conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

IT **Hydrazides**
RL: FMU (Formation, unclassified); RCT (Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent)
(formation on macromol. after release from solid surface, conversion of; macromol. conjugates and processes for preparing them using solid surfaces)

IT **Hydrazones**
RL: PRP (Properties)
(sulfhydryl group-containing proteins reaction with **maleimide** groups bound to solid surface via linkages of; macromol. conjugates and processes for preparing them using solid surfaces)

IT **9002-71-5**, Thyroid-stimulating hormone
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(R-phycoerythrin and alkaline phosphatase conjugates with **antibodies** to; macromol. conjugates and processes for preparing them using solid surfaces)

IT 6539-14-6, 2-Iminothiolane 55750-61-3 64987-85-5 76931-93-6, N-Succinimidyl S-Acetylthioacetate **81186-33-6** 112241-19-7 115616-51-8 158018-81-6 **359436-60-5** 570368-46-6 570368-47-7 **570368-50-2**
RL: RCT (Reactant); RACT (Reactant or reagent)

(as bifunctional linker for linking macromols.; macromol. conjugates and processes for preparing them using solid surfaces)

IT 80307-12-6, γ- **Maleimidobutyric** acid N-hydroxysuccinimide ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(as bifunctional linker; macromol. conjugates and processes for preparing them using solid surfaces)

IT 9003-05-8, Polyacrylamide 9003-53-6, Polystyrene **9012-36-6**, Agarose
RL: RCT (Reactant); RACT (Reactant or reagent)
(as solid surface; macromol. conjugates and processes for preparing them using solid surfaces)

IT 19767-45-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(for deactivating residual unreacted **maleimide** groups; macromol. conjugates and processes for preparing them using solid surfaces)

IT **7790-28-5**, Sodium periodate
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of reactive agarose support; macromol. conjugates and processes for preparing them using solid surfaces)

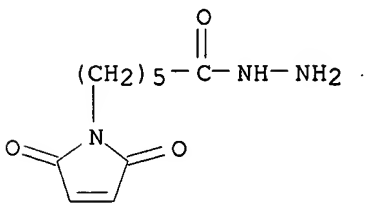
IT **9002-71-5**, Thyroid-stimulating hormone
RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(R-phycoerythrin and alkaline phosphatase conjugates with **antibodies** to; macromol. conjugates and processes for preparing them using solid surfaces)

RN 9002-71-5 HCAPLUS
CN Thyrotropin (9CI) (CA INDEX NAME)

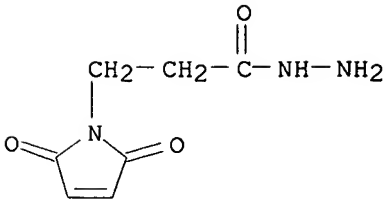
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **81186-33-6 359436-60-5 570368-50-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(as bifunctional linker for linking macromols.; macromol. conjugates and processes for preparing them using solid surfaces)

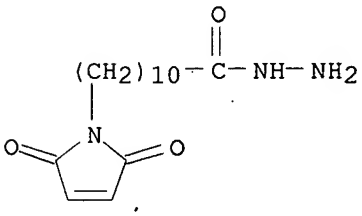
RN 81186-33-6 HCAPLUS
CN 1H-Pyrrole-1-hexanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)



RN 359436-60-5 HCAPLUS
CN 1H-Pyrrole-1-propanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)



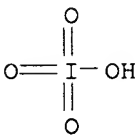
RN 570368-50-2 HCAPLUS
CN 1H-Pyrrole-1-undecanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide, monopotassium salt (9CI) (CA INDEX NAME)



● K

IT **9012-36-6**, Agarose
RL: RCT (Reactant); RACT (Reactant or reagent)
(as solid surface; macromol. conjugates and processes for preparing them using solid surfaces)
RN 9012-36-6 HCAPLUS
CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT **7790-28-5**, Sodium periodate
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of reactive agarose support; macromol. conjugates and processes for preparing them using solid surfaces)
RN 7790-28-5 HCAPLUS
CN Periodic acid (HIO4), sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

L29 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:357124 HCAPLUS
DOCUMENT NUMBER: 133:2209
TITLE: Immunoassay method
INVENTOR(S): Kurokawa, Hiroto; Sugiura, Masakazu
PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000146972	A2	20000526	JP 1998-334982	19981109

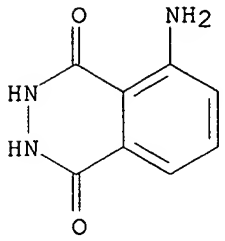
PRIORITY APPLN. INFO.: JP 1998-334982 19981109

AB Provided is an immunoassay with broad determination range and high reproducibility. The immunoassay comprises insol. carrier-immobilized analyte-specific binding substance (e.g. antibody) and (enzyme-)labeled analyte-specific binding substance (e.g. antibody) for reacting with analyte-containing sample, and detection of luminescence derived from the reaction. The insol. carrier is a glass product or glass oxide product, the label is an enzyme (e.g. alkaline phosphatase or peroxidase), and the luminescent substance is selected from luminol, dioxetane, lophine, acridine, tetrakis(dimethylamino)ethylene, indole, oxalate, diphenoyl peroxide, luciferin and analogs. Thus, prepared were antibodies coated on glass beads derived from lead glass and soda-lime glass and borosilicate glass, and peroxidase- and alkaline phosphatase-labeled antibodies for immunoassay of α-fetoprotein and TSH.

IC ICM G01N033-543
ICS G01N033-543; G01N021-76; G01N033-532
CC 9-10 (Biochemical Methods)
Section cross-reference(s): 2, 15
IT **9002-71-5**, TSH
RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chemiluminescence enzyme immunoassay for antigen or **antibody** determination)
IT 120-72-9D, Indole, analogs 144-62-7D, Ethanedioic acid, analogs, analysis 260-94-6D, Acridine, analogs 484-47-9D, Lophine, analogs **521-31-3D**, Luminol, analogs 996-70-3D, Tetrakis(dimethylamino)ethylene, analogs 2591-17-5D, Luciferin, analogs 6109-04-2D, Diphenoyl peroxide, analogs 6788-84-7D, Dioxetane, analogs 9001-78-9, Alkaline phosphatase 9003-99-0, Peroxidase
RL: ARU (Analytical role, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chemiluminescence enzyme immunoassay for antigen or antibody determination)
IT **9002-71-5**, TSH
RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chemiluminescence enzyme immunoassay for antigen or **antibody** determination)
RN 9002-71-5 HCAPLUS
CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
IT **521-31-3D**, Luminol, analogs

RL: ARU (Analytical role, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(chemiluminescence enzyme immunoassay for antigen or antibody determination)
RN 521-31-3 HCAPLUS
CN 1,4-Phthalazinedione, 5-amino-2,3-dihydro- (6CI, 8CI, 9CI) (CA INDEX NAME)



L29 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:488749 HCAPLUS
DOCUMENT NUMBER: 125:162763
TITLE: Phosphatase activated crosslinking, conjugating and reducing agents; methods of using such agents; and reagents comprising phosphatase activated crosslinking and conjugating agents
INVENTOR(S): Bieniarz, Christopher; Husain, Mazhar; Young, Douglas F.; Skrzypczynski, Zbigniew; Cornwell, Michael J.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9617580	A2	19960613	WO 1995-US15586	19951130
WO 9617580	A3	19961010		
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5736624	A	19980407	US 1994-349167	19941202
CA 2205373	AA	19960613	CA 1995-2205373	19951130
EP 795128	A2	19970917	EP 1995-943631	19951130
EP 795128	B1	20030423		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 10509731	T2	19980922	JP 1995-517656	19951130
AT 238549	E	20030515	AT 1995-943631	19951130
ES 2197214	T3	20040101	ES 1995-943631	19951130
US 5789219	A	19980804	US 1996-655067	19960529
US 6057429	A	20000502	US 1996-657695	19960529
US 6160153	A	20001212	US 2000-498388	20000203

PRIORITY APPLN. INFO.: US 1994-349167 A 19941202
WO 1995-US15586 W 19951130
US 1996-657695 A3 19960529

AB The present invention provides crosslinking, conjugating and reducing

agents which are functional with at least one phosphorothioate monoester group (-SPO3-2). Crosslinking and conjugation methods as well as solid-phase reagents and conjugates which are useful in immunoassays are also provided. Crosslinking and conjugating agents of the invention generally comprise a compound corresponding to the formula Q-(S-PO3-2)n, wherein n is at least 1 and Q is a straight or branched monomer, polymer or oligomer having an average mol. weight between about 200 and about 1,000,000.

Addnl., when n is 1, Q comprises at least 1 addnl. reactive functionality. The reducing agents that are provided conform to a compound of formula (SPO3-2)-A-C(OH)-C(OH)-Z-(SPO3-2), wherein (A) and (Z) can be independently selected from C1-C5 alkyl and CONH(CH2)p wherein p is an integer between 1 and 5.

IC ICM A61K
CC 9-10 (Biochemical Methods)
IT **Phycoerythrins**
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(R-, crosslinking of; phosphatase-activated crosslinking, conjugating, and reducing agents for use in immunoassays)
IT 9002-61-3, Choriogonadotropin **9002-71-5**, Thyroid stimulating hormone
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**antibodies** to; phosphatase-activated crosslinking, conjugating, and reducing agents for use in immunoassays)
IT **9002-71-5**, Thyroid stimulating hormone
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(**antibodies** to; phosphatase-activated crosslinking, conjugating, and reducing agents for use in immunoassays)
RN 9002-71-5 HCAPLUS
CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:494710 HCAPLUS
DOCUMENT NUMBER: 122:237795
TITLE: Site-specific covalent attachment of conglutinin to solid phase materials and related methods
INVENTOR(S): Lee, Young Moo; Okarma, Thomas B.; O'Donoghue, Gerard
PATENT ASSIGNEE(S): Applied Immune Sciences, Inc., USA
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

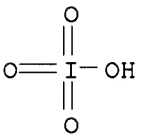
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9506254	A1	19950302	WO 1994-US9407	19940824
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9476005	A1	19950321	AU 1994-76005	19940824

PRIORITY APPLN. INFO.: US 1993-111071 19930824

WO 1994-US9407 19940824

AB A device comprising a biocompatible support and conglutinin which is covalently attached to the support. The covalent attachment of the conglutinin to the support can be by a hydrazone reaction. The device can be used to remove immune complexes from a body fluid and can be employed in anal. and therapeutic methods. A method for producing a device in accordance with the invention is also set forth. In example, an immune complex affinity column was constructed by site-specific attachment of bovine conglutinin to agarose via hydrazone chemical. The column was tested for capturing and eluting anti-chicken ovalbumin immune complex.

IC ICM G01N033-543
ICS G01N033-548; A61M001-36
ICA G01N033-564
CC 15-10 (Immunochemistry)
IT **Hydrazones**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(reaction; site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
IT **7790-28-5**, Sodium periodate
RL: MOA (Modifier or additive use); USES (Uses)
(aldehyde group generation; in site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
IT **9012-36-6D**, Agarose, conjugates with conglutinin
RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
IT **7790-28-5**, Sodium periodate
RL: MOA (Modifier or additive use); USES (Uses)
(aldehyde group generation; in site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
RN 7790-28-5 HCAPLUS
CN Periodic acid (HIO4), sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

IT **9012-36-6D**, Agarose, conjugates with conglutinin
RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(site-specific covalent attachment of conglutinin to solid phase materials for immune complexes removal from body fluid)
RN 9012-36-6 HCAPLUS
CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:73771 HCAPLUS
DOCUMENT NUMBER: 110:73771
TITLE: Production of highly specific, low crossreactive antibody by immunization with D-glutamic acid-D-lysine copolymer conjugates and use of the antibody in immunoassays
INVENTOR(S): Hamaoka, Toshiyuki; Tateishi, Kayoko
PATENT ASSIGNEE(S): Japan
SOURCE: U.S., 15 pp. Cont. of U.S. Ser. No. 433,608, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4722899	A	19880202	US 1983-505892	19830620
JP 56145222	A2	19811111	JP 1980-48447	19800411
JP 01031141	B4	19890623		
JP 01026158	A2	19890127	JP 1988-86741	19880408
JP 01058459	B4	19891212		
JP 02109978	A2	19900423	JP 1988-291477	19881118
JP 03023151	B4	19910328		

PRIORITY APPLN. INFO.:

JP 1980-48447	19800411
US 1981-252772	19810410
US 1981-253457	19810413
US 1982-433608	19821012

AB An antibody having a high specificity to a 1st antigen and a low crossreactivity with ≥1 2nd antigen having ≥1 antigenic determinant structurally related to that of the 1st antigen, is produced by administering to a mammal a copolymer of D-glutamic acid and D-lysine (D-GL) coupled to the 2nd antigen to induce immunol. tolerance to the 2nd antigen and then immunizing the mammal with the 1st antigen. Clones producing antibodies to C-terminal octapeptide of cholecystokinin-pancreozymin (CCK-8-P) were prepared by immunizing mice with CCK-8-P-keyhole limpet hemocyanin 3 days after treatment with pentagastrin-D-GL conjugate, fusing the immunized spleen cells with P3-X63-Ag80-U1 tumor cells, cloning the resultant hybridomas, and selecting for production of the desired antibody. Fifteen clones were obtained which produced anti-CCK-8-P antibodies; 12 of these were not reactive with pentagastrin. When the mice were not pretreated with pentagastrin-D-GL conjugate, 18 clones were obtained but all produced antibodies reactive with both CCK-8-P and pentagastrin.
IC ICM G01N033-53
ICS G01N033-531; G01N033-534
NCL 435172200
CC 15-3 (Immunochemistry)
Section cross-reference(s): 2
IT **Hemocyanins**
RL: PREP (Preparation)
(conjugates, with cholecystokinin-pancreozymin octapeptide, preparation of, in production of specific antibodies with low crossreactivity)

IT 50-22-6D, Corticosterone, D-glutamic acid-D-lysine copolymer conjugates
50-23-7D, Cortisol, D-glutamic acid-D-lysine copolymer conjugates
50-27-1D, D-glutamic acid-D-lysine copolymer conjugates 50-28-2D,
Estradiol, D-glutamic acid-D-lysine copolymer conjugates 51-41-2D,
Norepinephrine, D-glutamic acid-D-lysine copolymer conjugates 51-43-4D,
Epinephrine, D-glutamic acid-D-lysine copolymer conjugates 51-61-6D,
Dopamine, D-glutamic acid-D-lysine copolymer conjugates 52-39-1D,
Aldosterone, D-glutamic acid-D-lysine copolymer conjugates 53-06-5D,
Cortisone, D-glutamic acid-D-lysine copolymer conjugates 53-16-7D,
Oestrone, D-glutamic acid-D-lysine copolymer conjugates 53-41-8D,
Androsterone, D-glutamic acid-D-lysine copolymer conjugates 53-42-9D,
Etiocholanolone, D-glutamic acid-D-lysine copolymer conjugates 53-43-0D,
Dehydroepiandrosterone, D-glutamic acid-D-lysine copolymer conjugates
57-83-0D, Pregn-4-ene-3,20-dione, D-glutamic acid-D-lysine copolymer
conjugates 58-22-0D, Testosterone, D-glutamic acid-D-lysine copolymer
conjugates 64-85-7D, D-glutamic acid-D-lysine copolymer conjugates
68-96-2D, 17α-Hydroxyprogesterone, D-glutamic acid-D-lysine
copolymer conjugates 81-25-4D, Cholic acid, D-glutamic acid-D-lysine
copolymer conjugates 83-44-3D, D-glutamic acid-D-lysine copolymer
conjugates 145-13-1D, Pregnenolone, D-glutamic acid-D-lysine copolymer
conjugates 152-58-9D, D-glutamic acid-D-lysine copolymer conjugates
434-13-9D, Lithocholic acid, D-glutamic acid-D-lysine copolymer conjugates
521-18-6D, 5α-Dihydrotestosterone, D-glutamic acid-D-lysine
copolymer conjugates 4199-09-1D, L-Propranolol, D-glutamic acid-D-lysine
copolymer conjugates 7313-86-2D, D-glutamic acid-D-lysine copolymer
conjugates 7313-87-3D, D-glutamic acid-D-lysine copolymer conjugates
9002-61-3D, Chorionic gonadotropin, D-glutamic acid-D-lysine copolymer
conjugates 9002-67-9D, LH, D-glutamic acid-D-lysine copolymer conjugates
9002-68-0D, Follicle-stimulating hormone, D-glutamic acid-D-lysine
copolymer conjugates **9002-71-5D**, TSH, D-glutamic acid-D-lysine
copolymer conjugates 9002-76-0D, Gastrin, D-glutamic acid-D-lysine
copolymer conjugates 9004-10-8D, Insulin, D-glutamic acid-D-lysine
copolymer conjugates 9007-92-5D, Glucagon, D-glutamic acid-D-lysine
copolymer conjugates 9011-97-6D, Cholecystokinin-pancreozymin,
D-glutamic acid-D-lysine copolymer conjugates 9035-68-1D, Proinsulin,
D-glutamic acid-D-lysine copolymer conjugates 51110-01-1D, Somatostatin,
D-glutamic acid-D-lysine copolymer conjugates
RL: BIOL (Biological study)
(immunotolerance to, in production of highly specific and low-crossreactive **antibodies**)

IT **9002-71-5D**, TSH, D-glutamic acid-D-lysine copolymer conjugates
RL: BIOL (Biological study)
(immunotolerance to, in production of highly specific and low-crossreactive **antibodies**)

RN 9002-71-5 HCAPLUS
CN Thyrotropin (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L29 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1986:511462 HCAPLUS
DOCUMENT NUMBER: 105:111462
TITLE: Preparation of agarose hexanoic diacylhydrazine and its coupling with nucleotides
AUTHOR(S): Bai, Tianyu; Huang, Kexin
CORPORATE SOURCE: Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, Peop. Rep. China

SOURCE: Huaxue Shiji (1986), 8(2), 110-11
CODEN: HUSHDR; ISSN: 0258-3283
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Adipic acid reacted with EtOH in the presence of H_2SO_4 to form di-Et adipate, di-Et adipate then reacted with hydrazine to form adipic acid dihydrazide. Adipic acid dihydrazide was then coupled to cyanogen bromide-activated agarose. Nucleotides (e.g., ATP, NAD, or NADP) were oxidized with $NaIO_4$ and immobilized on agarose coupled with adipic acid dihydrazide. This method is useful for preparation of affinity agents for purification of biomols.

CC 9-10 (Biochemical Methods)

IT **9012-36-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(activation and reaction with adipic acid dihydrazide)

IT **7790-28-5**
RL: ANST (Analytical study)
(oxidation with, of nucleotides)

IT **1071-93-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with agarose)

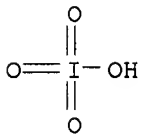
IT **9012-36-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(activation and reaction with adipic acid dihydrazide)

RN 9012-36-6 HCAPLUS
CN Agarose (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **7790-28-5**
RL: ANST (Analytical study)
(oxidation with, of nucleotides)

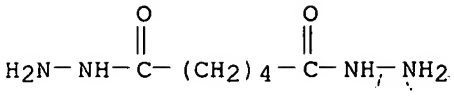
RN 7790-28-5 HCAPLUS
CN Periodic acid (HIO_4), sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

IT **1071-93-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with agarose)

RN 1071-93-8 HCAPLUS
CN Hexanedioic acid, dihydrazide (9CI) (CA INDEX NAME)



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=> d que
L37             3 SEA (THYROID OR TSH)(5A) ANTIBOD? AND HYDRAZON? AND HYDRAZID?
                  AND HYDROXYLAMIN?

=> d l37 ibib ab 1-3

L37  ANSWER 1 OF 3  USPATFULL on STN
ACCESSION NUMBER:         2004:59861  USPATFULL
TITLE:                    Particles for diagnostic and therapeutic use
INVENTOR(S):              Singh, Sharat, San Jose, CA, United States
                          Pease, John S., Los Altos, CA, United States
                          Sadakian, Jacqueline, San Jose, CA, United States
                          Wagner, Daniel B., Sunnyvale, CA, United States
                          Ullman, Edwin F., Atherton, CA, United States
PATENT ASSIGNEE(S):       Dade Behring Marburg GmbH, Marburg, GERMANY, FEDERAL
                          REPUBLIC OF (non-U.S. corporation)

                               NUMBER         KIND    DATE
                          --------------- ------ --------
PATENT INFORMATION:       US 6703248          B1   20040309
APPLICATION INFO.:        US 1999-465065           19991215  (9)
DOCUMENT TYPE:            Utility
FILE SEGMENT:             GRANTED
PRIMARY EXAMINER:         Chin, Christopher L.
ASSISTANT EXAMINER:       Do, Penbee T.
LEGAL REPRESENTATIVE:     Leitereg, Theodore J.
NUMBER OF CLAIMS:         13
EXEMPLARY CLAIM:          1
NUMBER OF DRAWINGS:       12 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT:               2356
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      Methods, compositions and kits are disclosed. The compositions are light
        emitting and comprise a polymeric matrix having dissolved therein a
        photoactive compound. The composition has the characteristic that, after
        activation of the photoactive compound, the rate of decrease in the
        intensity of light emission at any time during a 20-fold decrease in the
        intensity is proportional to the intensity of the light emission. In one
        embodiment the polymeric matrix is comprised of particles of about 20 nm
        to about 100 μm in diameter to which is bound a specific binding pair
        member. The particles generally comprise a polymeric matrix having
        dissolved therein about 1 to about 20% by weight of a dopant. The
        compositions may be used in methods for determining an analyte. A
        combination is provided comprising (1) a medium suspected of containing
        the analyte, (2) and the aforementioned composition. The photoactive
        substance is activated and the effect of the activating on the optical
        properties of the combination is detected. The presence and amount of
        the effect is related to the presence and amount of the analyte in the
        medium. Also disclosed are kits for use in an assay.

L37  ANSWER 2 OF 3  USPATFULL on STN
ACCESSION NUMBER:         2003:214603  USPATFULL
TITLE:                    Macromolecular conjugates and processes for preparing
                          the same
INVENTOR(S):              Russell, John C., Pleasant Prairie, WI, UNITED STATES
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this applcn

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003149246	A1	20030807	
APPLICATION INFO.:	US 2002-62131	A1	20020201	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STEVEN F. WEINSTOCK, ABBOTT LABORATORIES, 100 ABBOTT PARK ROAD, DEPT. 377/AP6A, ABBOTT PARK, IL, 60064-6008
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 1677
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Making a suspended or soluble macromolecular conjugate comprising binding a first macromolecule to a solid via a stable, disruptable bond, stably linking additional macromolecules, and releasing the macromolecular conjugate, as well as macromolecular conjugates prepared by the method.

L37 ANSWER 3 OF 3 USPATFULL on STN
ACCESSION NUMBER: 90:93259 USPATFULL
TITLE: Method to derivatize dextran
INVENTOR(S): Rowley, Gerald L., San Jose, CA, United States
Hillis, Larry R., Milpitas, CA, United States
PATENT ASSIGNEE(S): Sclavo, Inc., Sunnyvale, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4975532		19901204	
APPLICATION INFO.:	US 1987-137986		19871224	(7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1986-935952, filed on 28 Nov 1986
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Griffin, Ronald W.
ASSISTANT EXAMINER: Carson, Nancy S.
LEGAL REPRESENTATIVE: Irell & Manella
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 1203
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method to convert the hydroxyl groups of solubilized dextran to the tresylate forms which can be displaced by a nucleophile is disclosed. The method of the invention requires the reaction of dextran with the tresylating reagent in the presence of dry DMSO. The resulting tresylate can be converted to labeled dextrans which have direct linkages of a nucleophilic label to the carbons of the dextran backbone.

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=> d que
L38          891 SEA ALKALINE PHOSPHATAS? AND MALEIM? AND (HYDRAZID? OR
                 HYDRAZON?)
L39          325 SEA L38 AND (THYROID OR TSH)
L41           41 SEA L39 AND HYDROXYLAMIN?
L43           20 SEA L41 AND CHROMOPHOR?
L44            9 SEA L43 AND PERIODAT?


=> d l44 1-9 bib ab

L44  ANSWER 1 OF 9  USPATFULL on STN
AN      2004:150947  USPATFULL
TI      Interferon beta: remodeling and glycoconjugation of interferon beta
IN      DeFrees, Shawn, North Wales, PA, UNITED STATES
        Zopf, David, Wayne, PA, UNITED STATES
        Bayer, Robert, San Diego, CA, UNITED STATES
        Bowe, Caryn, Doylestown, PA, UNITED STATES
        Hakes, David, Willow Grove, PA, UNITED STATES
        Chen, Xi, Lansdale, PA, UNITED STATES
PA      Neose Technologies, Inc. (U.S. corporation)
PI      US 2004115168      A1   20040617
AI      US 2003-410930     A1   20030409 (10)
RLI     Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003,
        PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan
        2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on
        5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9
        Oct 2002, PENDING
PRAI    US 2002-407527P     20020828 (60)
        US 2002-404249P     20020816 (60)
        US 2002-396594P     20020717 (60)
        US 2002-391777P     20020625 (60)
        US 2002-387292P     20020607 (60)
        US 2001-334301P     20011128 (60)
        US 2001-334233P     20011128 (60)
        US 2001-344692P     20011019 (60)
        US 2001-328523P     20011010 (60)
DT      Utility
FS      APPLICATION
LREP    MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA,
        19103-2921
CLMN    Number of Claims: 119
ECL     Exemplary Claim: 1
DRWN    497 Drawing Page(s)
LN.CNT 19412
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB      The invention includes methods and compositions for remodeling a peptide
        molecule, including the addition or deletion of one or more glycosyl
        groups to a peptide, and/or the addition of a modifying group to a
        peptide.

L44  ANSWER 2 OF 9  USPATFULL on STN
AN      2004:107626  USPATFULL
TI      Interferon alpha: remodeling and glycoconjugation of interferon alpha
IN      DeFrees, Shawn, North Wales, PA, UNITED STATES
        Zopf, David, Wayne, PA, UNITED STATES
```

Bayer, Robert, San Diego, CA, UNITED STATES
Bowe, Caryn, Doylestown, PA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004082026 A1 20040429
AI US 2003-411049 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003, PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on 5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9 Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)
US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)
DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921
CLMN Number of Claims: 126
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 19445
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes a multitude of methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER 3 OF 9 USPATFULL on STN
AN 2004:101966 USPATFULL
TI Granulocyte colony stimulating factor: remodeling and glycoconjugation of G-CSF
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES
Bayer, Robert, San Diego, CA, UNITED STATES
Bowe, Caryn, Doylestown, PA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004077836 A1 20040422
AI US 2003-410962 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003, PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on 5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9 Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)

US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)
DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921
CLMN Number of Claims: 111
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 19316
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER 4 OF 9 USPATFULL on STN
AN 2004:83455 USPATFULL
TI Protein remodeling methods and proteins/peptides produced by the methods
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES
Bayer, Robert, San Diego, CA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004063911 A1 20040401
AI US 2003-411026 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. US 2003-360779, filed on 19 Feb 2003, PENDING Continuation-in-part of Ser. No. US 2003-360770, filed on 6 Jan 2003, PENDING Continuation-in-part of Ser. No. US 2002-287994, filed on 5 Nov 2002, PENDING Continuation of Ser. No. WO 2002-US32263, filed on 9 Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)
US 2002-387292P 20020607 (60)
US 2001-334301P 20011128 (60)
US 2001-334233P 20011128 (60)
US 2001-344692P 20011019 (60)
US 2001-328523P 20011010 (60)
DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921
CLMN Number of Claims: 39
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 18872
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER 5 OF 9 USPATFULL on STN
AN 2004:57444 USPATFULL
TI Alpha galalctosidase a: remodeling and glycoconjugation of alpha galactosidase A
IN DeFrees, Shawn, North Wales, PA, UNITED STATES
Zopf, David, Wayne, PA, UNITED STATES
Bayer, Robert, San Diego, CA, UNITED STATES
Bowe, Caryn, Doylestown, PA, UNITED STATES
Hakes, David, Willow Grove, PA, UNITED STATES
Chen, Xi, Lansdale, PA, UNITED STATES
PA Neose Technologies, Inc. (U.S. corporation)
PI US 2004043446 A1 20040304
AI US 2003-411037 A1 20030409 (10)
RLI Continuation-in-part of Ser. No. WO 2002-US32263, filed on 9 Oct 2002, PENDING
PRAI US 2002-407527P 20020828 (60)
US 2002-404249P 20020816 (60)
US 2002-396594P 20020717 (60)
US 2002-391777P 20020625 (60)
US 2002-387292P 20020607 (60)
DT Utility
FS APPLICATION
LREP MORGAN, LEWIS & BOCKIUS LLP, 1701 MARKET STREET, PHILADELPHIA, PA, 19103-2921
CLMN Number of Claims: 122
ECL Exemplary Claim: 1
DRWN 497 Drawing Page(s)
LN.CNT 19395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention includes methods and compositions for remodeling a peptide molecule, including the addition or deletion of one or more glycosyl groups to a peptide, and/or the addition of a modifying group to a peptide.

L44 ANSWER 6 OF 9 USPATFULL on STN
AN 2003:231611 USPATFULL
TI Compositions and methods for the transport of biologically active agents across cellular barriers
IN Houston, L. L., Del Mar, CA, UNITED STATES
Sheridan, Philip J., San Diego, CA, UNITED STATES
Hawley, Stephen B., San Diego, CA, UNITED STATES
Glynn, Jacqueline M., San Diego, CA, UNITED STATES
Chapin, Steven, San Diego, CA, UNITED STATES
PI US 2003161809 A1 20030828
AI US 2001-969748 A1 20011002 (9)
PRAI US 2000-237929P 20001002 (60)
US 2000-248478P 20001113 (60)
US 2000-248819P 20001114 (60)
US 2001-267601P 20010209 (60)
DT Utility
FS APPLICATION
LREP FOLEY & LARDNER, P.O. BOX 80278, SAN DIEGO, CA, 92138-0278
CLMN Number of Claims: 53
ECL Exemplary Claim: 1
DRWN 32 Drawing Page(s)
LN.CNT 11304

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Disclosed herein are complexes and compounds that pass through cellular barriers to deliver compounds into, through and out of cells, and methods of producing and using such complexes and compounds. The complexes and compounds of the invention comprise a biologically active portion and a targeting element directed to a ligand that confers transcellular, transcytotic or paracellular transporting properties to an agent specifically bound to the ligand, with the proviso that the targeting element is not an antibody. Also disclosed are complexes and compounds that comprise two or more targeting elements directed to a ligand that confers transcellular, transcytotic or paracellular transporting properties to an agent specifically bound to the ligand. Preferred ligands include but are not limited to the stalk of pIgR, a pIgR domain, an amino acid sequence that is conserved among pIgR's from different animals, and one of several regions of pIgR defined herein.

L44 ANSWER 7 OF 9 USPATFULL on STN
AN 2003:214603 USPATFULL
TI Macromolecular conjugates and processes for preparing the same
IN Russell, John C., Pleasant Prairie, WI, UNITED STATES
PI US 2003149246 A1 20030807
AI US 2002-62131 A1 20020201 (10)
DT Utility
FS APPLICATION
LREP STEVEN F. WEINSTOCK, ABBOTT LABORATORIES, 100 ABBOTT PARK ROAD, DEPT. 377/AP6A, ABBOTT PARK, IL, 60064-6008
CLMN Number of Claims: 29
ECL Exemplary Claim: 1
DRWN 1 Drawing Page(s)
LN.CNT 1677
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Making a suspended or soluble macromolecular conjugate comprising binding a first macromolecule to a solid via a stable, disruptable bond, stably linking additional macromolecules, and releasing the macromolecular conjugate, as well as macromolecular conjugates prepared by the method.

this applica

L44 ANSWER 8 OF 9 USPATFULL on STN
AN 2002:275837 USPATFULL
TI Controllable ion-exchange membranes
IN Hou, Zhizhong, Davis, CA, United States
Stroeve, Pieter, Davis, CA, United States
Abbott, Nicholas, Madison, WI, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6468657 B1 20021022
AI US 1998-206084 19981204 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Le, Hoa T.
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 71
ECL Exemplary Claim: 1
DRWN 6 Drawing Figure(s); 4 Drawing Page(s)
LN.CNT 3454
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Multilayered porous materials are formed by coating a porous substrate

with a metal and adsorbing an organic layer comprising a recognition moiety onto the metal film. The recognition moiety interacts with an analyte of interest allowing for its detection, purification, etc. Suitable recognition moieties can be selected from a range of species including, small molecules, polymers and biomolecules and the like. The novel porous materials of the invention can be utilized in an array of methods including, ion-exchange, ion-selective ion-exchange, assays, affinity dialysis, size exclusion dialysis and the like.

L44 ANSWER 9 OF 9 USPATFULL on STN
AN 2001:136295 USPATFULL
TI Support for high performance affinity chromatography and other uses
IN Abbott, Nicholas, Madison, WI, United States
Stroeve, Pieter, Davis, CA, United States
Dubrovsky, Timothy B., Flemington, NJ, United States
Hou, Zhizhong, Davis, CA, United States
PA The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6277489 B1 20010821
AI US 1998-205750 19981204 (9)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Le, Hoa T.
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 44
ECL Exemplary Claim: 1
DRWN 2 Drawing Figure(s); 2 Drawing Page(s)
LN.CNT 3868
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Multilayered particulate materials are formed by coating a particulate substrate with a metal and adsorbing an organic layer comprising a recognition moiety onto the metal film. The recognition moiety interacts with an analyte of interest allowing for its detection, purification, etc. Suitable recognition moieties can be selected from a range of species including, small molecules, polymers and biomolecules and the like. The novel particulate materials of the invention can be utilized in an array of methods including, ion-exchange, ion-selective ion-exchange, assays, affinity dialysis, size exclusion dialysis, as supports in solid phase synthesis, combinatorial synthesis and screening of compound libraries and the like.

Inventors

L2 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:610108 HCAPLUS
DOCUMENT NUMBER: 139:146205
ENTRY DATE: Entered STN: 08 Aug 2003
TITLE: **Macromolecular** conjugates and processes for preparing the same
INVENTOR(S): **Russell, John C.**
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 18 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
INT. PATENT CLASSIF.:
MAIN: G01N033-542
SECONDARY: G01N033-53; C07K016-46
US PATENT CLASSIF.: 530391100; 435007900
CLASSIFICATION: 9-14 (Biochemical Methods)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

this applicn

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003149246	A1	20030807	US 2002-62131	20020201
WO 2003072017	A2	20030904	WO 2002-US40285	20021216

W: CA, JP
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR

PRIORITY APPLN. INFO.: US 2002-62131 A 20020201

ABSTRACT:
The invention pertains to making a suspended or soluble macromol. conjugate comprising binding a first macromol. to a solid via a stable, disruptable bond, stably linking addnl. macromols., and releasing the macromol. conjugate, as well as macromol. conjugates prepared by the method. Sepharose CL2B was oxidized with NaIO4, activated with N-[ε-maleimidocaproic acid]hydrazide, and reacted with R-phycoerythrin activated with N-succinimidyl S-acetylthioacetate (SATA). Unreacted maleimide groups were deactivated by treatment with the sodium salt of mercaptoethanesulfonic acid. From one to five layers of alkaline phosphatase were added to the conjugate by alternately reacting SATA-activated enzyme or γ-maleimidobutyric acid N-hydroxysuccinimide ester (GMBS)-activated enzyme. SATA-activated or GMBS-activated anti-TSH antibody was reacted last with the conjugates. Unreacted groups were capped and the conjugates were released from the resin using hydroxylamine. The conjugates were used in TSH ELISA assays.

SUPPL. TERM: macromol conjugate prepn solid phase; TSH ELISA reagent antibody alk phosphatase phycoerythrin conjugate; agarose phycoerythrin alk phosphatase antibody conjugate prepn
INDEX TERM: Phycoerythrins
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(B-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)
INDEX TERM: Antibodies and Immunoglobulins
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(IgG, conjugates, with R-phycoerythrin and alkaline

phosphatase, to TSH; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Phycoerythrins
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(R-phycoerythrins, conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Reagents
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(activating or deactivating or cleaving; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Nucleic acids
Peptides, reactions
Polyoxyalkylenes, reactions
Polysaccharides, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as capping compound; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Crosslinking agents
(bifunctional; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Zwitterions
(capping compds.; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Polymers, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(capping compds.; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Immunoassay
(chemiluminescence enzyme, preparation of reagent for; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Chromophores
Fluorescent substances
(conjugate containing; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Antibodies and Immunoglobulins
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Allophycocyanins
Macromolecular compounds
Proteins
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(conjugates; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Immunoassay
(enzyme-linked immunosorbent assay, for TSH; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Hydrazides
ROLE: FMU (Formation, unclassified); RCT (Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent)

(formation on macromol. after release from solid surface, conversion of; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Immobilization, molecular or cellular
(macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Macromolecular compounds
Proteins
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Proteins
ROLE: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(mercapto-containing; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: Hydrazones
ROLE: PRP (Properties)
(sulfhydryl group-containing proteins reaction with maleimide groups bound to solid surface via linkages of; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9002-71-5, Thyroid-stimulating hormone
ROLE: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(R-phycoerythrin and alkaline phosphatase conjugates with antibodies to; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 65099-79-8, Sepharose CL2B
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(activation of; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 6539-14-6, 2-Iminothiolane 55750-61-3 64987-85-5
76931-93-6, N-Succinimidyl S-Acetylthioacetate 81186-33-6
112241-19-7 115616-51-8 158018-81-6 359436-60-5
570368-46-6 570368-47-7 570368-50-2
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as bifunctional linker for linking macromols.; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 80307-12-6, γ-Maleimidobutyric acid N-hydroxysuccinimide ester
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as bifunctional linker; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9004-54-0, Dextran, reactions 25322-68-3, Polyethylene glycol
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as capping compound; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9003-05-8, Polyacrylamide 9003-53-6, Polystyrene 9012-36-6, Agarose
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(as solid surface; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 7803-49-8, Hydroxylamine, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)

(conjugate release from agarose support using; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 19767-45-4
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(for deactivating residual unreacted maleimide groups; macromol. conjugates and processes for preparing them using solid surfaces)

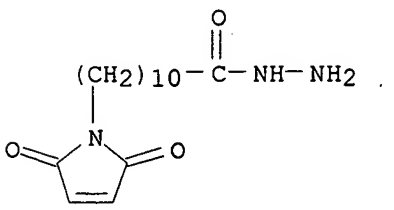
INDEX TERM: 128-53-0, N-Ethylmaleimide
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(for deactivating residual unreacted sulfhydryl groups; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 7790-28-5, Sodium periodate
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of reactive agarose support; macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 9001-78-9DP, conjugates with R-phycoerythrin and anti-TSH antibodies
ROLE: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(macromol. conjugates and processes for preparing them using solid surfaces)

INDEX TERM: 3483-12-3, Dithiothreitol 22559-71-3D, Acridinium, Ester derivs.
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(macromol. conjugates and processes for preparing them using solid surfaces)

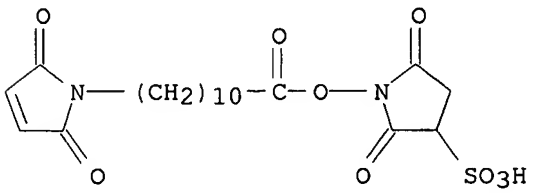
L3 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **570368-50-2** REGISTRY
CN 1H-Pyrrole-1-undecanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide, monopotassium salt (9CI) (CA INDEX NAME)
MF C15 H25 N3 O3 . K
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)
CRN (359436-62-7)



● K

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **570368-47-7** REGISTRY
CN 3-Pyrrolidinesulfonic acid, 1-[[11-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxoundecyl]oxy]-2,5-dioxo-, potassium salt (9CI) (CA INDEX NAME)
MF C19 H26 N2 O9 S . K
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)
CRN (220935-13-7)

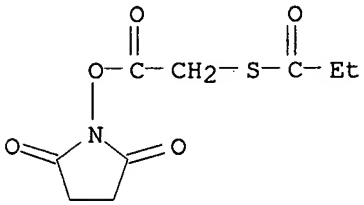


● K

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **570368-46-6** REGISTRY
CN Propanethioic acid, S-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl] ester (9CI) (CA INDEX NAME)
MF C9 H11 N O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)

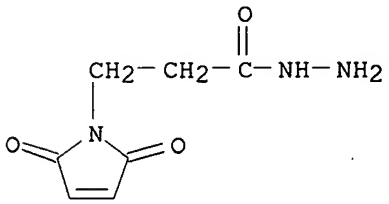


RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **359436-60-5** REGISTRY
CN 1H-Pyrrole-1-propanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C7 H9 N3 O3
CI COM
SR CAS Client Services
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: RACT (Reactant or reagent)



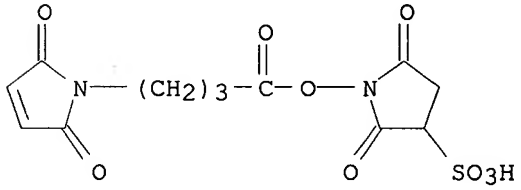
RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN **158018-81-6** REGISTRY
CN 3-Pyrrolidinesulfonic acid, 1-[4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-oxobutoxy]-2,5-dioxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H12 N2 O9 S
CI COM
SR CA
LC STN Files: CA, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

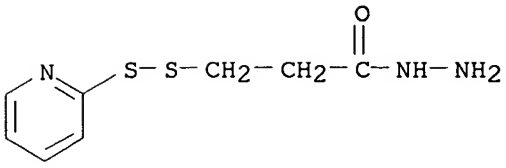


RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **115616-51-8** REGISTRY
CN Propanoic acid, 3-(2-pyridinyldithio)-, hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C8 H11 N3 O S2
CI COM
SR CA
LC STN Files: CA, CANCERLIT, CAPLUS, CASREACT, MEDLINE, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



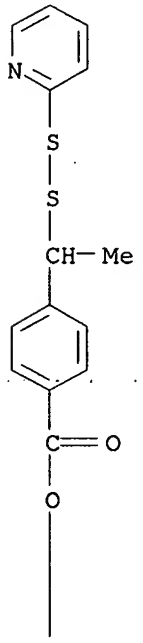
RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

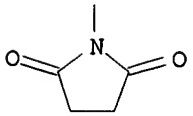
31 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
31 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **112241-19-7** REGISTRY
CN 2,5-Pyrrolidinedione, 1-[[4-[1-(2-pyridinyldithio)ethyl]benzoyl]oxy]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN SMPT
FS 3D CONCORD
DR 154644-19-6
MF C18 H16 N2 O4 S2
SR CA
LC STN Files: CA, CANCERLIT, CAPLUS, CHEMCATS, MEDLINE, PROMT, TOXCENTER, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PAGE 1-A



PAGE 2-A

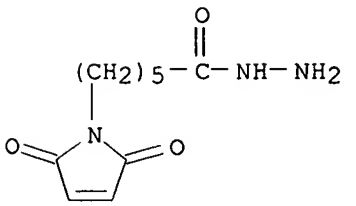


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

39 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
39 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **81186-33-6** REGISTRY
CN 1H-Pyrrole-1-hexanoic acid, 2,5-dihydro-2,5-dioxo-, hydrazide (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H15 N3 O3
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);

PROC (Process); PRP (Properties); RACT (Reactant or reagent)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
16 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **80307-12-6** REGISTRY
CN 1H-Pyrrole-2,5-dione, 1-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]-(9CI) (CA INDEX NAME)
OTHER NAMES:
CN γ-Maleimidobutyric acid N-hydroxysuccinimide ester
CN 4-Maleimidobutyric acid N-hydroxysuccimide ester
CN GMBS
CN N-(γ-Maleimidobutyryloxy)succinimide
FS 3D CONCORD
DR 105239-64-3
MF C12 H12 N2 O6
LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CSCHEM, MEDLINE, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
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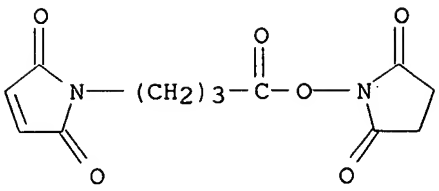
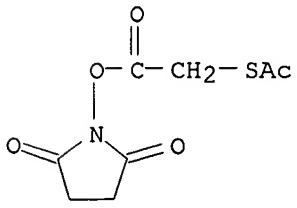


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

153 REFERENCES IN FILE CA (1907 TO DATE)
25 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
153 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **76931-93-6** REGISTRY
CN Ethanethioic acid, S-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl] ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN N-Succinimidyl S-acetylthioacetate
CN SATA
CN Succinimidyl acetylthioacetate
DR 150460-52-9
MF C8 H9 N O5 S
LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IPA, MEDLINE, PROMT, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

165 REFERENCES IN FILE CA (1907 TO DATE)
31 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
166 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 65099-79-8 REGISTRY
CN Sepharose CL 2B (9CI) (CA INDEX NAME)
MF Unspecified
CI COM, MAN
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, CA, CAPLUS, CHEMCATS, USPATFULL
DT.CA CAplus document type: Journal; Patent
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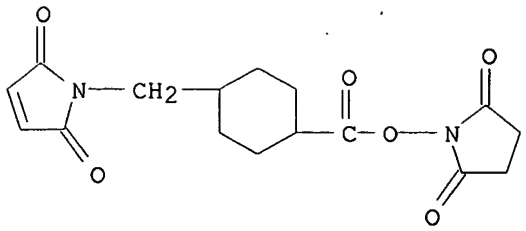
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
33 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
33 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 64987-85-5 REGISTRY
CN 1H-Pyrrole-2,5-dione, 1-[[4-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]cyclohexyl]methyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4-(N-Maleimidomethyl)cyclohexane-1-carboxylic acid N-hydroxysuccinimide ester
CN NSC 344483
CN SMCC
CN Succinimidyl 4-(N-maleimidolmethyl)cyclohexanecarboxylate
FS 3D CONCORD
MF C16 H18 N2 O6
LC STN Files: BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CSCHEM, MEDLINE, MSDS-OHS, PIRA, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

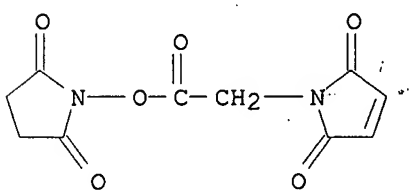


RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

261 REFERENCES IN FILE CA (1907 TO DATE)
57 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
261 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **55750-61-3** REGISTRY
CN 1H-Pyrrole-2,5-dione, 1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-(9CI) (CA INDEX NAME)
OTHER NAMES:
CN Maleimidoacetic acid N-hydroxysuccinimidyl ester
FS 3D CONCORD
MF C10 H8 N2 O6
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)



RCT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

26 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
26 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN

RN **25322-68-3** REGISTRY
CN Poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN α,ω-Hydroxypoly(ethylene oxide)
CN α-Hydro-ω-hydroxypoly(oxy-1,2-ethanediyl)
CN α-Hydro-ω-hydroxypoly(oxyethylene)
CN 1,2-Ethanediol, homopolymer
CN 1660O
CN 1660S
CN 400DAB8
CN Alkox
CN Alkox E 100
CN Alkox E 130
CN Alkox E 160
CN Alkox E 240
CN Alkox E 30
CN Alkox E 45
CN Alkox E 60
CN Alkox E 75
CN Alkox R 100
CN Alkox R 1000
CN Alkox R 15
CN Alkox R 150
CN Alkox R 400
CN Alkox SR
CN Antarox E 4000
CN Aquacide III
CN Aquaffin
CN Badimol
CN BDH 301
CN Bradsyn PEG
CN Breox 2000
CN Breox 20M
CN Breox 4000
CN Breox 550
CN Breox PEG 300
CN CAFO 154
CN Carbowax
CN Carbowax 100
CN Carbowax 1000
CN Carbowax 1350
CN Carbowax 14000
CN Carbowax 1450
CN Carbowax 1500
CN Carbowax 1540
CN Carbowax 20
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CN Carbowax 3350
CN Carbowax 400
CN Carbowax 4000
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
AR 9002-90-8

DR 615575-04-7, 12676-74-3, 12770-93-3, 9081-95-2, 9085-02-3, 9085-03-4, 54510-95-1, 125223-68-9, 54847-64-2, 59763-40-5, 64441-68-5, 64640-28-4, 133573-31-6, 25104-58-9, 25609-81-8, 134919-43-0, 101677-86-5, 99264-61-6, 106186-24-7, 112895-21-3, 114323-93-2, 50809-04-6, 50809-59-1, 119219-06-6, 60894-12-4, 61840-14-0, 37361-15-2, 112384-37-9, 70926-57-7, 75285-02-8, 75285-03-9, 77986-38-0, 150872-82-5, 154394-38-4, 79964-26-4, 80341-53-3, 85399-22-0, 85945-29-5, 90597-70-9, 88077-80-9, 88747-22-2, 34802-42-1, 107502-63-6, 107529-96-4, 116549-90-7, 156948-19-5, 169046-53-1, 188364-77-4, 188924-03-0, 189154-62-9, 191743-71-2, 201163-43-1, 206357-86-0, 221638-71-7, 225502-44-3, 270910-26-4, 307928-07-0, 356055-70-4, 391229-98-4

MF (C2 H4 O)n H2 O

CI PMS, COM

PCT Polyether

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

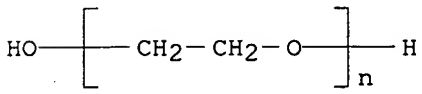
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

74884 REFERENCES IN FILE CA (1907 TO DATE)

18865 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
75093 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **22559-71-3** REGISTRY
CN Acridine, conjugate acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4-Azaphenanthrene conjugate monoacid
CN Acridinium
CN Acridinium cation
CN Acridinium ion
CN Monoprotonated acridine
CN Protonated acridine
DR 111977-15-2
MF C13 H9 N . H
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CSCHEM, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
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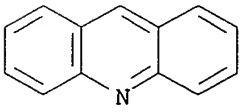
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
CRN (260-94-6)



● H^+

248 REFERENCES IN FILE CA (1907 TO DATE)
93 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
249 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **19767-45-4** REGISTRY
CN Ethanesulfonic acid, 2-mercapto-, monosodium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2-Mercapto-1-ethanesulfonic acid monosodium salt
CN 2-Mercaptoethanesulfonic acid monosodium salt

CN 2-Mercaptoethanesulfonic acid sodium salt
CN D 7093
CN Mesna
CN Mesnex
CN Mesnum
CN Mistabron
CN Mistabronco
CN Mitexan
CN Mucofluid
CN Prehepon
CN Sodium 2-mercaptoethanesulfonate
CN UCB 3983
CN Uromitexan
DR 122504-78-3
MF C2 H6 O3 S2 . Na
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: FORM (Formation, nonpreparative); PRP (Properties)
CRN (3375-50-6)

● Na

458 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
461 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9012-36-6** REGISTRY
CN Agarose (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,6-Anhydro-α-L-galacto-β-D-galactan
CN Agaoligo
CN Agarose S

CN FastLane agarose
CN Indubiose A 4
CN NuSieve GTG
CN Odigose
CN Sepharose
CN Sepharose 2B
CN Sepharose 4B
CN Sepharose 6B
CN Sepharose IVB
DR 12624-29-2, 9036-61-7, 9047-20-5, 9063-31-4, 55840-45-4, 55840-46-5, 59979-54-3, 37311-23-2
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, VTB
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
7787 REFERENCES IN FILE CA (1907 TO DATE)
3071 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7808 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9004-54-0** REGISTRY
CN Dextran (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dextrans (8CI)
OTHER NAMES:
CN α-Dextran
CN CDC-H
CN DEX 500
CN Dextran 1.5
CN Dextran 10
CN Dextran 1000
CN Dextran 110

CN Dextran 15
CN Dextran 150
CN Dextran 2000
CN Dextran 250
CN Dextran 3000
CN Dextran 40
CN Dextran 45
CN Dextran 500
CN Dextran 60
CN Dextran 70
CN Dextran 75
CN Dextran B 512
CN Dextran B1355
CN Dextran D 10
CN Dextran PL 1S
CN Dextran PT 25
CN Dextran PVD
CN Dextran RMI
CN Dextran T 10
CN Dextran T 110
CN Dextran T 150
CN Dextran T 20
CN Dextran T 2000
CN Dextran T 500
CN Dextran T 70
CN Dextranen
CN Dextraven
CN Eudextran
CN Expandex
CN Gentran
CN Hemodex
CN Hyscon
CN Hyskon
CN Infucoll
CN Intrader
CN Intradex
CN LMD
CN LMWD
CN Longasteril 70
CN LU 122
CN LVD
CN Macrodex
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12626-85-6, 9013-80-3, 9044-66-0, 11104-36-2, 11121-03-2, 37224-17-2, 86280-85-5
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
14366 REFERENCES IN FILE CA (1907 TO DATE)
2430 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14410 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9003-53-6** REGISTRY
CN Benzene, ethenyl-, homopolymer (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 105E
CN 138F
CN 143E
CN 144C
CN 144CKG2
CN 145G
CN 147F
CN 148G
CN 148H
CN 158K
CN 158KR
CN 158L-KG2
CN 168M
CN 168N
CN 168N003 Clear
CN 168N15
CN 16ERA8
CN 1800P
CN 271T
CN 2D-MicroHex
CN 2V62F
CN 31N
CN 333AZY
CN 3A
CN 454H
CN 456M
CN 473E
CN 475K

(RCT)

CN 5026B
CN 50IS
CN 550P
CN 550P (styrene polymer)
CN 615APR
CN 666D
CN 666R
CN 666U
CN 666U26
CN 678U
CN 679R
CN 685D
CN 685D-W
CN 686E
CN 76RES7116
CN 825TV-PS
CN 9M62
CN 9M62C
CN A 180
CN A 180 (vinyl polymer)
CN A 2500
CN A 2500 (styrene polymer)
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 471865-10-8, 12627-11-1, 9044-64-8, 9055-91-8, 11120-46-0, 172641-48-4, 172867-64-0, 53986-84-8, 54578-24-4, 54596-41-7, 58033-91-3, 56451-72-0, 56748-62-0, 57657-06-4, 55128-06-8, 55465-00-4, 60120-16-3, 60328-46-3, 120037-99-2, 63849-49-0, 25038-60-2, 98444-30-5, 105270-05-1, 51609-83-7, 51609-87-1, 60880-98-0, 61584-89-2, 61584-90-5, 137262-45-4, 78354-47-9, 144637-93-4, 86090-91-7, 81834-12-0, 39470-87-6, 40494-15-3, 52932-49-7, 53112-49-5, 157243-21-5, 219782-52-2, 260975-79-9, 359762-95-1, 360046-70-4
MF (C8 H8)x
CI PMS, COM
PCT Polystyrene
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ASMDATA*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PLASPEC*, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CM 1

CRN 100-42-5
CMF C8 H8

$H_2C{=}CH{-}Ph$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

99387 REFERENCES IN FILE CA (1907 TO DATE)
8954 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
99551 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9003-05-8** REGISTRY
CN 2-Propenamide, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acrylamide, polymers (8CI)
OTHER NAMES:
CN 2-Propenamide hydrochloride homopolymer
CN 2300S
CN 2J
CN 3330s
CN 38F
CN 920MPM
CN Accotrol S 622
CN Acrylamide homopolymer
CN Acrylamide polymer
CN Alcoflood 1175
CN American Cyanamid KPAM
CN American Cyanamid P 250
CN AMF
CN Aminogen PA
CN AP 273
CN Aron F 40
CN ASP 6
CN BanDrift
CN Boze Floc N 46BT
CN Calgon 470
CN Calgon 800
CN CM 303
CN CM 311
CN Cogum 20P

CN Cogum 25H
CN Colsize WLV
CN Cyanamer A 15L
CN Cyanamer N 10
CN Cyanamer N 100
CN Cyanamer N 100L
CN Cyanamer N 300
CN Cyanamer N 300LMW
CN Cyanamer P 250
CN Cyanamer P 35
CN Cytame 5
CN Diaclear MA 3000H
CN Diaclear MN 3000
CN Diaclear MN 3000H
CN Discol 4600
CN DK Dry Capsule ESP
CN DKS-ORP-F 40NT
CN Dow 164
CN Dow ET 597
CN Dow J 100
CN DP 1916
CN DP 9-6193
CN DS 415
CN E 936
CN ET 597
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12624-24-7, 9082-06-8, 122177-63-3, 57679-11-5, 129774-19-2, 133522-77-7, 25038-45-3, 104981-89-7, 114265-35-9, 51312-40-4, 68247-81-4, 72270-86-1, 79079-15-5, 143180-09-0, 143180-13-6, 143180-22-7, 143749-07-9, 27754-57-0, 33338-03-3, 39355-07-2, 39387-77-4, 200138-95-0, 443682-77-7
MF (C3 H5 N O)x
CI PMS, COM
PCT Polyacrylic, Polyamide, Polyamide formed
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
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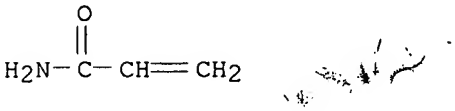
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CM 1

CRN 79-06-1
CMF C3 H5 N O



21657 REFERENCES IN FILE CA (1907 TO DATE)
3613 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
21692 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9002-71-5** REGISTRY
CN Thyrotropin (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Dermathycin
CN Pretiron
CN Thyreotrophic hormone
CN Thyroid-stimulating factor
CN Thyroid-stimulating hormone
CN Thyrotrophin
CN Thyrotropic hormone
CN Thytropar
CN TSH
CN TSH (hormone)
CN TTH
DR 9015-90-1, 11006-84-1
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU

ANALYTE
TSH

(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
14187 REFERENCES IN FILE CA (1907 TO DATE)
128 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14202 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 9001-78-9 REGISTRY
CN Phosphatase, alkaline (9CI) (CA INDEX NAME)
OTHER NAMES:
CN AIP
CN Alkaline phenyl phosphatase
CN alkaline phosphatase
CN Alkaline phosphatase
CN Alkaline phosphohydrolase
CN Alkaline phosphomonoesterase
CN E.C. 3.1.3.1
CN Ostase
MF Unspecified
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, TOXCENTER, ULIDAT, USPAT2, USPATFULL
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Prep

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
33574 REFERENCES IN FILE CA (1907 TO DATE)
1100 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
33627 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 7803-49-8 REGISTRY
CN Hydroxylamine (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN HDA
CN Hydroxyamine
CN Telclean 1200A
FS 3D CONCORD
MF H3 N O
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

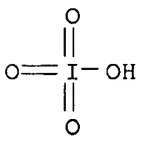
H_2N-OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8868 REFERENCES IN FILE CA (1907 TO DATE)
715 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8876 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN 7790-28-5 REGISTRY
CN Periodic acid (HIO4), sodium salt (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sodium periodate (NaIO4) (6CI)

OTHER NAMES:
CN Monosodium metaperiodate
CN Periodic acid sodium salt
CN Sodium metaperiodate
CN Sodium metaperiodate (NaIO4)
CN Sodium periodate
MF H I O4 . Na
CI COM
LC STN Files: AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent)
CRN (13444-71-8)

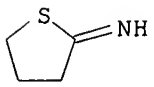


● Na

1703 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1710 REFERENCES IN FILE CAPLUS (1907 TO DATE)
44 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **6539-14-6** REGISTRY
CN 2(3H)-Thiophenimine, dihydro- (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2-Iminotetrahydrothiophene
CN 2-Iminothiolane
CN Butanimidic acid, 4-mercapto-, γ-(thio lactone)
CN Traut's reagent
FS 3D CONCORD

MF C4 H7 N S
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMCATS, EMBASE, IPA, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

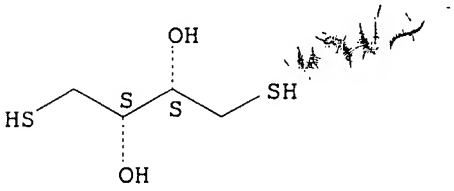
257 REFERENCES IN FILE CA (1907 TO DATE)
51 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
259 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **3483-12-3** REGISTRY
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-
CN Threitol, 1,4-dithio- (7CI, 8CI)
OTHER NAMES:
CN (±)-1,4-Dimercapto-2,3-butanediol
CN (±)-Dithiothreitol
CN 1,4-Dithio-DL-threitol
CN 1,4-Dithiothreitol
CN Cleland's reagent
CN Dithiothreitol
CN DL-1,4-Dimercapto-2,3-dihydroxybutane
CN DL-1,4-Dithiothreitol
CN DL-Dithiothreitol
CN DTT
CN DTT (threitol derivative)
CN rac-Dithiothreitol
CN Reagents, Cleland's
CN Sputolysin
CN threo-1,4-Dimercapto-2,3-butanediol

RAT

CN threo-2,3-Dihydroxy-1,4-butanedithiol
CN WR 34678
FS STEREOSEARCH
DR 27565-41-9, 28823-08-7, 214119-27-4
MF C4 H10 O2 S2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4664 REFERENCES IN FILE CA (1907 TO DATE)
75 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4679 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2004 ACS on STN
RN **128-53-0** REGISTRY
CN 1H-Pyrrole-2,5-dione, 1-ethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Maleimide, N-ethyl- (8CI)
OTHER NAMES:
CN 1-Ethyl-1H-pyrrole-2,5-dione
CN Ethylmaleimide

ref

CN Maleic acid N-ethylimide
CN N-Ethylmaleimide
CN NEM
CN NSC 7638
FS 3D CONCORD
MF C6 H7 N O2
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
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Other Sources: DSL**, EINECS**, TSCA**
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DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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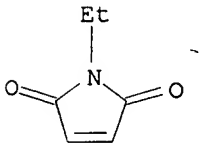

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3111 REFERENCES IN FILE CA (1907 TO DATE)
37 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3113 REFERENCES IN FILE CAPLUS (1907 TO DATE)
88 REFERENCES IN FILE CAOLD (PRIOR TO 1967)